

In the claims:

1. (currently amended) A method of generating an invocation sequence ~~[[sequences]]~~ of update functions ~~[[to]]~~ that update elements of values associated with questions in a questionnaire form used to obtain information to produce a customized document from a template document, the invocation sequence specifying an order in which the update functions are invoked, the method comprising the steps of:

supplying the update functions to a synthesiser;

identifying, using the synthesizer, trigger ~~[[elements]]~~ questions from the ~~[[elements]]~~ questions of the questionnaire form in the update functions that trigger ~~[[the]]~~ invocation of at least one of the supplied update ~~[[function]]~~ functions;

generating an activation network based on the identified update functions at the synthesiser; and

determining the invocation sequence of the identified update functions for each trigger ~~[[element]]~~ question by using the activation network.

2. (original) The method of claim 1, wherein the trigger elements are determined by at least one of the value or status of the elements of the form.

3. (original) The method of claim 1, wherein the activation network includes cyclic update functions.

4. (original) The method of claim 1, 2, or 3 further comprising the step of:

exporting the update functions and the invocation sequence to a form renderer in a readable format.

5. (original) The method of claim 1, 2, or 3 wherein the update functions are validation functions.

6. (original) The method of claim 1, 2, or 3 wherein the update functions are activation functions.

7. (original) The method of claim 4, wherein the synthesiser is stored on a server computer.
8. (original) The method of claim 4, wherein the synthesiser is stored on a client computer.
9. (original) The method of claim 4, wherein the synthesiser forms part of a middleware application, located between a server computer and a client computer.
10. (original) The method of claim 4, wherein the synthesiser is integrated with the form renderer.
11. (original) The method of claim 10, wherein the form renderer is a web browser application.
12. (original) The method of claim 1, 2 or 3 wherein the update functions are supplied by one of a database engine and a form generator.
13. (original) The method of claim 1, 2 or 3 wherein the step of determining the invocation sequence involves determining the order in which the update functions must be executed within the activation network.
14. (currently amended) The method of claim 1, 2 or 3 further comprising the steps of:
entering data to change the status of a first form [[element]] question;
determining the position of the first form [[element]] question in the activation network;
and
triggering the update functions associated with the first form [[element]] question to update the status of a second form [[element]] question.
15. (currently amended) A computer readable medium having program code stored thereon, which, when run on a computer, causes the computer to generate invocation sequences of update functions to update values associated with questions in a questionnaire form used to obtain

information to produce a customized document from a template document by performing ~~[[perform]]~~ the steps of:

supplying the update functions to a synthesiser;

identifying, with the synthesizer, trigger ~~[[elements]]~~ questions from the ~~[[elements]]~~ questions of the form ~~in the update functions~~ that trigger the invocation of ones of the supplied update functions ~~[[function]]~~;

generating an activation network based on the update functions identified at the synthesiser; and

determining the invocation sequence of update functions for each trigger ~~[[element]]~~ question by using the activation network.

16. (currently amended) A computer readable medium having program code stored thereon for generating an invocation sequence to update values associated with questions in a questionnaire ~~[[a]]~~ form, comprising:

a synthesiser for generating an activation network based on update functions supplied by a form generator and identifying trigger ~~[[elements]]~~ questions from the ~~[[elements]]~~ questions of the form ~~in the update functions~~ that trigger the invocation of ones of the update functions ~~[[function]]~~; and

a determinator for determining the invocation sequence of the ~~[[direct]]~~ supplied update functions, for each trigger ~~[[element]]~~ question, the form being updated based on the determined invocation sequence and output in tangible format.

17. (currently amended) The computer readable medium of claim 16, wherein the trigger ~~[[elements]]~~ questions are determined by at least one of the value or status of the ~~[[elements]]~~ questions of the form.

18. (previously presented) The computer readable medium of claim 16, wherein the activation network includes cyclic update functions.

19. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the update functions and invocation sequence are exported to a form renderer in a readable format.

20. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the update functions are validation functions.
21. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the update functions are activation functions.
22. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the synthesiser is stored on a server computer.
23. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the synthesiser is stored on a client computer.
24. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the synthesiser forms part of a middleware application, located between a server computer and a client computer.
25. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the synthesiser is integrated with the form renderer.
26. (previously presented) The computer readable medium of claim 25, wherein the form renderer is a web browser application.
27. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the update functions are supplied by one of a database engine and a form generator.
28. (previously presented) The computer readable medium of claim 16, 17 or 18, wherein the step of determining the invocation sequence involves determining the order in which the functions must be executed within the activation network.

29. (currently amended) The computer readable medium of claim 16, 17 or 18, wherein, in use, a user enters data to change the status of a first form [[element]] question, the position in the activation network of the first form [[element]] question is determined such that the update functions associated with the first form [[element]] question are triggered so as to update the status of a second form [[element]] question, in accordance with the invocation sequence.